



PATENT ABSTRACTS OF JAPAN

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C09D 11/00(21)Application number: **04084524**(22)Date of filing: **05 . 03 . 92**(71)Applicant: **RICOH CO LTD**(72)Inventor: **NAGAI KIYOFUMI**
MURAKAMI KAKUJI**(54)HOT-MELT INK COMPOSITION AND
METHOD FOR RECORDING USING THE
SAME****(57)Abstract:**

PURPOSE: To provide the subject ink composition containing a compound solid at ordinary temperature and having a melting point and a boiling point and a coloring agent comprising a sublimable dyestuff, in part or in whole not causing change in the quality of the dyed picture by the difference in the kind of paper and useful for ink jet recording, etc.

CONSTITUTION: At least one of compounds (e.g. methyl sulfone) solid at ordinary temperature and having a melting point and a boiling point is compounded with a coloring agent comprising a sublimable dyestuff in part or in whole (e.g. disperse yellow) having a sublimation starting temperature of $\geq 100^{\circ}\text{C}$ to provide the objective hot-melt ink composition not causing large change in the quality of the printed picture by the difference in the kind of paper and useful for a hot-melt ink recording style. The ink composition is kept in the state melted with a heater, fed into

the head of a thermal jet recording device through an ink-feeding pipe 6, and subsequently subjected to the selective application of thermal energy with a heat-generating element 2. The melted ink is flown through an ink-extruding nozzle 1 as small drops to form a picture on recording paper.

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